

RG-EG310GH-P-E

Reyee10-Port High-Performance Cloud Managed PoE Office Router



Highlights

- 1.5 Gbps throughput, high-performance VPN router for office networks.
- Powerful VPN for branches and remote employees.
- Traffic visualization and monitoring.
- Efficient bandwidth management based on applications and users.
- Multi-WAN, intelligent load balancing.

Highlight Features

High-performance VPN Router for Office Network

RG-EG100 Series

600 Mbps

↑ 256%

RG-EG300 Series

1.5 Gbps



300
Concurrent Clients



Max. 4
WAN Ports



64
VPN Tunnels

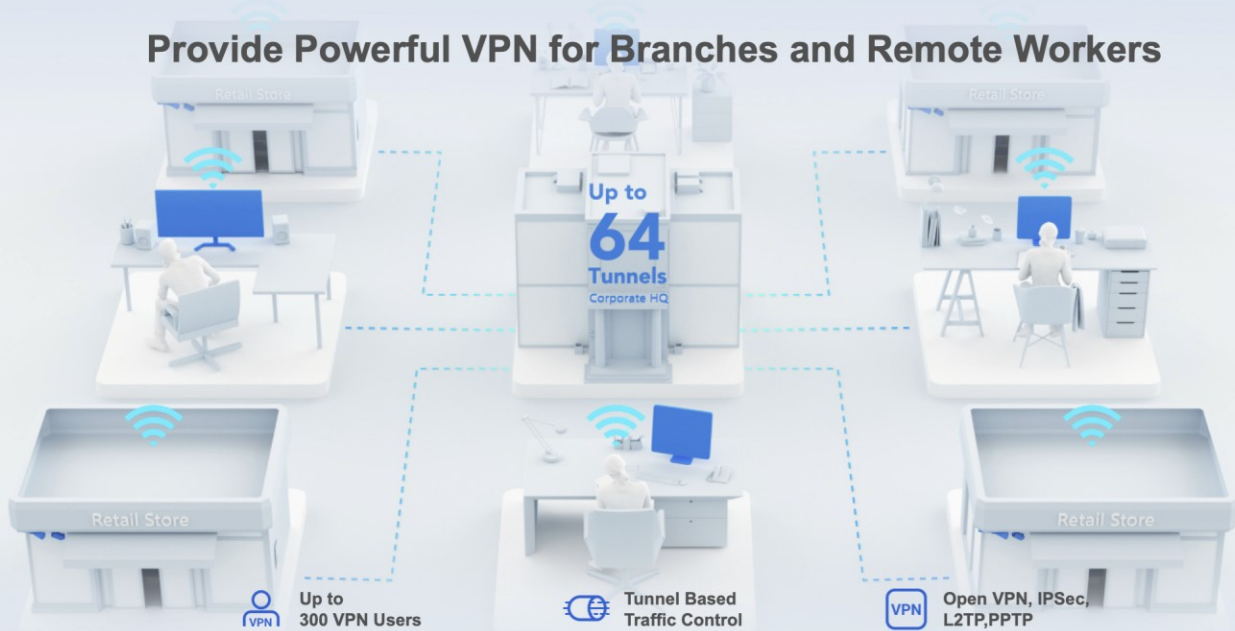


Load
Balancing



Free Cloud
Management

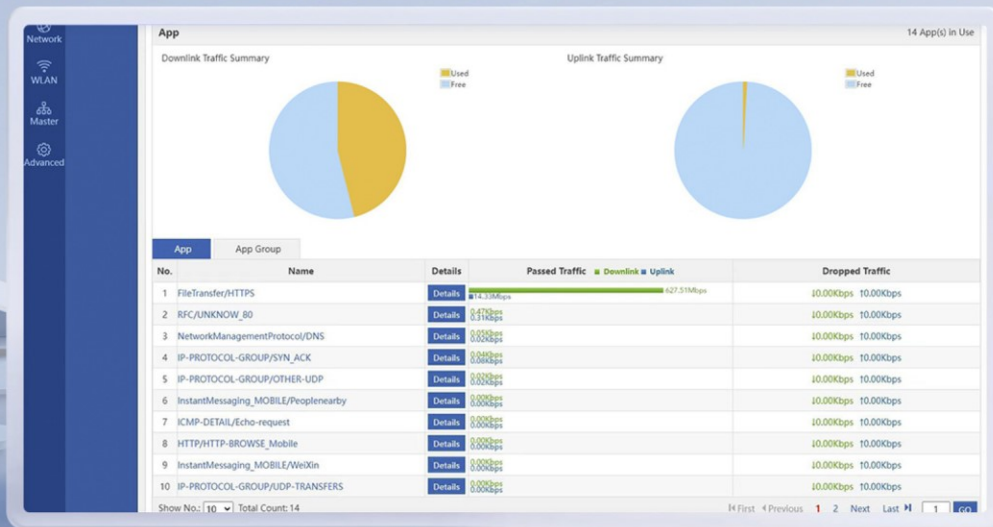
Provide Powerful VPN for Branches and Remote Workers



Highlight Features

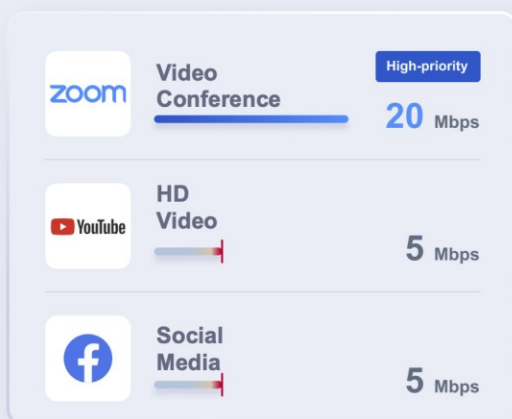
Who is Eating Your Internet Speed?

Traffic visualization monitoring for you. No matter traffic user ranking, or traffic application ranking, everything in a glance

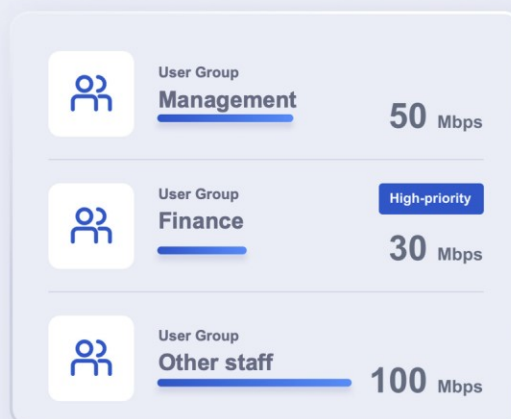


New Efficient Way of Bandwidth Management

Application Based Bandwidth Management



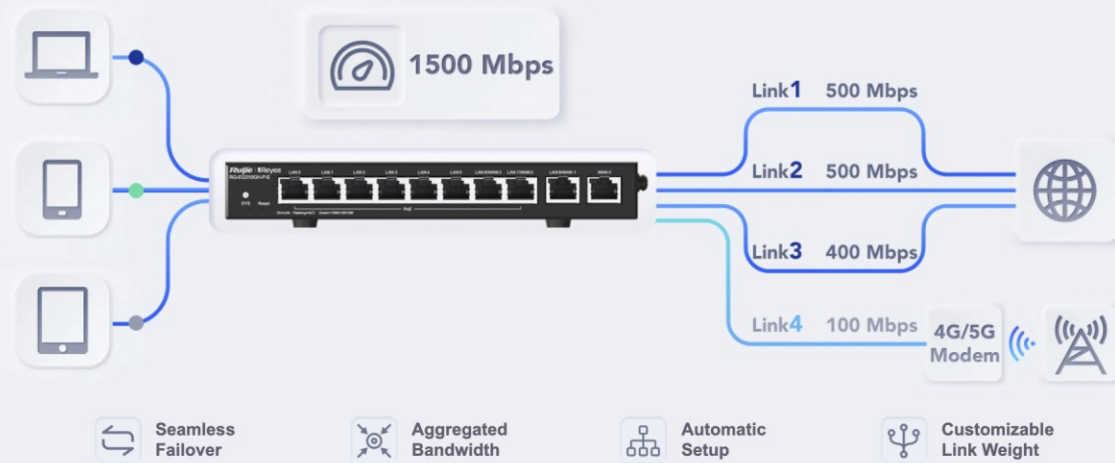
User Based Bandwidth Management



Highlight Features

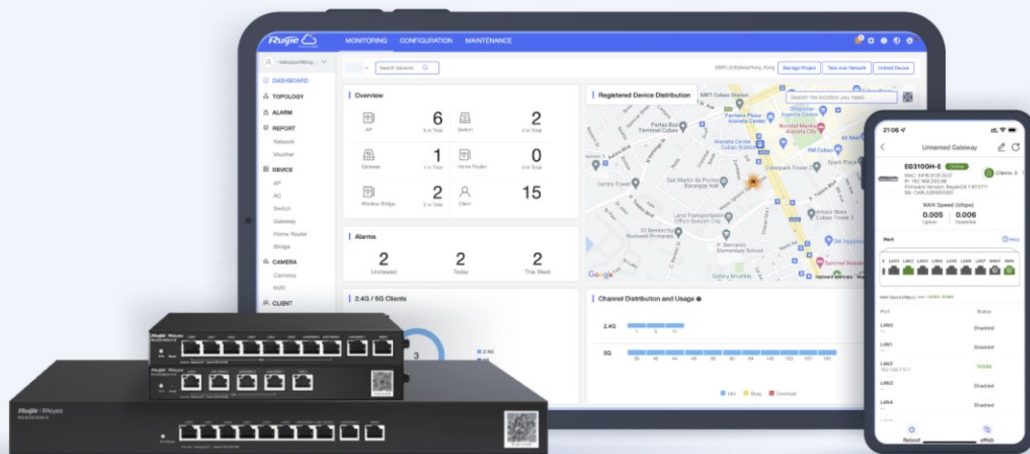
Unbreakable Multi-WAN, Intelligent Load Balancing

Supports load balancing, redundancy link, and source IP based PBR(Policy based routing).
Preventing login failures due to IP address changes for services such as e-banking.



Cloud, Make Your Business Easy

- Reyee free DDNS
- Cloud portal authentication
- Remote monitoring and maintenance
- Upgrade firmware via Cloud
- APP library dynamic update
- Customized APP library via APP



Hardware Specifications

Model	RG-EG310GH-P-E
Port Specifications	
Total number of RJ45 ports	10
Number of 10/100/1000BASE-T ports	10
Maximum number of LAN ports	9
Maximum number of WAN ports	4
Number of fixed LAN ports	6
Number of fixed WAN ports	1
Number of LAN/WAN ports	3
LEDs	1 x system status LED
	10 x Ethernet port LEDs
Reset button	1
Dimensions and Weight	
Package dimensions (W x D x H)	594 mm x 430 mm x 267 mm (23.39 in. x 16.93 in. x 10.51 in.)
Product dimensions (W x D x H)	202 mm x 108 mm x 28 mm (7.95 in. x 4.25 in. x 1.1 in.)
Shipping weight	1.62 kg (3.57 lbs)
Weight	1.50 kg (3.31 lbs)
Environment and Reliability	
Cooling	Natural cooling
Fan	Fanless design
Mounting options	Desk
Operating humidity	10% RH to 90% RH (non-condensing)

Hardware Specifications

Model	RG-EG310GH-P-E
Operating temperature	0°C to 40°C (32°F to 104°F)
Storage humidity	5% RH to 95% RH (non-condensing)
Storage temperature	−40°C to +70°C (−40°F to +158°F)
Surge protection	Service port: ±4 kV for common mode Power connector: ±4 kV for common mode and ±4 kV for differential mode
Power Supply and Consumption	
Power supply	DC power adapter
Dimensions of the DC connector	Outer diameter: 5.5 mm (0.22 in.) Inner diameter: 2.1 mm (0.08 in.) Depth: 10.0 mm (0.39 in.)
Maximum power consumption	130 W
PoE budget	110 W
Number of PoE Out ports	8
PoE budget per port	30 W
PoE power pins	1–2 (+), 3–6 (-)
PoE Out standard	IEEE 802.3af/at (PoE/PoE+)
System Specifications	
CPU	Dual-core processor, 1.35 GHz clock frequency per core
Flash memory	256 MB
RAM	512 MB

Software Specifications

Model	RG-EG310GH-P-E
Basic Configurations	
AC mode	Yes
Automatically identifying the Internet access mode and obtaining IP addresses	Yes
Automatically learning the PPPoE username and password of other routers	Yes
Configuration backup	Yes
Internet access mode	Static IP address Static IPv6 address Dynamic IP address Dynamic IPv6 address PPPoE
Local upgrade	Yes
Log upload	Yes
Online upgrade	Yes
Restoring factory defaults	Yes
System language	English, Chinese, Turkish, Arabic, Vietnamese, Thai, Indonesian, Latin American Spanish, Brazilian Portuguese, Russian, French, German, European Spanish, Italian, and Polish

Software Specifications

Model	RG-EG310GH-P-E
System Performance Capacity	
Maximum number of concurrent sessions	100000
Recommended number of concurrent clients	350
Throughput	1500 Mbps (Turbo Mode)
	1500 Mbps (Normal Mode)
Ethernet Interface	
Avoiding IP address conflicts on WAN interfaces	Yes
Multiple IP addresses on a WAN port	Yes
Sub-interface	Yes
Load balancing	Yes
MAC address cloning	Yes
Multiple WAN interfaces on the same network segment	Yes
PPPoE clients	Yes
Scheduled PPPoE reconnection	No
Authentication	
Portal authentication	Yes
One-click authentication	Yes

Software Specifications

Model	RG-EG310GH-P-E
Password authentication	Yes
SMS-based authentication	Yes
Voucher authentication supported by Ruijie Cloud portal page	Yes
Cloud portal authentication	Yes
Local portal authentication	Yes
QR code authentication	Yes
Custom portal page	Yes
Account-based authentication supported by Ruijie Cloud portal page	Yes
CHAP, MS-CHAPv1, MS-CHAPv2	Yes
Delivery through Ruijie Cloud portal page	Yes
802.1X authentication	Yes
MAC address-based authentication	Yes
PPPoE server	Yes
Number of accounts supported by the PPPoE server	300
Number of concurrent clients supported by the PPPoE server	128

Software Specifications

Model	RG-EG310GH-P-E
RADIUS flow control authorization	Yes
PAP	Yes
RADIUS authentication	Yes
RADIUS client	Yes
RADIUS accounting based on time or traffic	Yes
RADIUS flow control authorization	Yes
RADIUS proxy server	Yes
RADIUS traffic quota authorization	Yes
RADIUS user group authorization	Yes
Third-party authentication	Yes
Ethernet Switching	
Link aggregation	No
LLDP	No
VLAN	Yes
VLAN configuration supported on LAN ports	Yes
Super-VLAN	No
Configuring the same VLAN tag for multiple WAN ports	Yes
VLAN priority	Yes

Software Specifications

Model	RG-EG310GH-P-E
Gateway Features	
WAN failover	Yes
Application priority	Yes
Application recognition	Yes
Behavior management	Yes
QoS	Yes
Time-based blocking policy	Yes
IP address-based blocking policy	
Website filtering: custom URL	Yes
Traffic audit	Yes
URL audit log	Yes
Audit log server	Yes
Audit log storage	No
Uploading audit logs to a server	Yes
SD-WAN	
SD-WAN	Yes
SD-WAN performance	300 Mbps
Number of tunnels supported by SD-WAN	192
Maximum number of SD-WAN branches	64

Software Specifications

Model	RG-EG310GH-P-E
Active/Standby mode (automatically switching to the standby interface when the active interface fails)	Yes
Tunnel bandwidth test	Yes
Bypass networking for a device in AP mode	No
Centralized traffic forwarding policy	Yes
Multi-WAN bandwidth aggregation efficiency (lab data)	$\geq 80\%$
Reliability	
Stacking	No
VRRP	No
Network Management and Monitoring	
Web management	Yes
Ruijie Cloud management	Yes
Management on Ruijie Reyee App	Yes
Remotely monitoring devices through Ruijie Reyee App	Yes
Restarting devices through Ruijie Reyee App	Yes

Software Specifications

Model	RG-EG310GH-P-E
Upgrading device software version through Ruijie Reyee App	Yes
Fault diagnosis	Yes
FTP client (IPv4 address)	No
FTP server (IPv4 address)	No
TFTP client (IPv4 address)	Yes
TFTP server (IPv4 address)	No
HTTPS login	Yes
NTP client	Yes
NTP server	No
Scheduled device restart	Yes
SNMPv1, v2c, and v3	Yes
SON	Yes
SSH	No
Telnet	No
Web login information	Default IP Address: 192.168.110.1 Default Password: admin
Maximum number of managed devices (router mode)	AP and NBS series: 150 ES series: 128 Note: The maximum number of managed devices varies with each device series.

Software Specifications

Model	RG-EG310GH-P-E
Maximum number of managed devices (AC mode)	AP and NBS series: 500 ES series: 128 Note: The maximum number of managed devices varies with each device series.
IP Routing	
Application-based routing	Yes
Bandwidth aggregation	Yes
BGP	Yes
BGP4	Yes
BGP4+	Yes
ECMP	No
IPv4 static route	Yes
IPv6 PBR	Yes
Route selection based on national address database	Yes
IPv6 static route	Yes
IS-ISv4	No
IS-ISv6	No
Load balancing based on flows	Yes
Load balancing based on source IP addresses	Yes

Software Specifications

Model	RG-EG310GH-P-E
Load balancing based on the interface weight	Yes
Route selection by link quality	Yes
OSPFv2	Yes
OSPFv3	Yes
RIP	Yes
RIPng	Yes
Security	
ACL	Yes
DHCP snooping	No
Malformed packet attack defense	Yes
Fragmentation attack defense	Yes
Teardrop attack defense	Yes
LAND attack defense	Yes
SYN flood attack defense	Yes
Smurf attack defense	Yes
IP attack defense	Yes
Disabling ping	Yes
Stateful ACL	Yes
IP-MAC binding	Yes
Network sharing prevention	Yes

Software Specifications

Model	RG-EG310GH-P-E
Security log	Yes
Security zone	Yes
User group-based connection limiting	Yes
WLAN	
Wireless Intelligent Optimization (WIO)	Yes
IP Service	
3322.org	Yes
ALG	Yes
ARP binding	Yes
Maximum number of ARP entries	1024
Proxy ARP	No
Cloudflare	Yes
DHCP client	Yes
DHCP server	Yes
DHCP relay	No
Option 43	Yes
Option 138	Yes
Static/Dynamic NAT	Yes
NAT-PT	No

Software Specifications

Model	RG-EG310GH-P-E
Turbo mode	yes
NAT loopback	Yes
DNS client	Yes
DNS proxy	Yes
DNS server	Yes
DNS blocklist or allowlist	Yes
Maximum number of domains supported by a DNS blocklist or allowlist	2000
Maximum number of policies supported by a DNS blocklist or allowlist	10
No-IP DNS	Yes
GRE tunnel	No
IPTV	Yes
IPv4 ping	Yes
IPv6	Yes
IPv6 ping	Yes
Number of port mapping entries	512
Port mapping	Yes
DDNS	Yes

Software Specifications

Model	RG-EG310GH-P-E
Ruijie DDNS	Yes
Alibaba Cloud DDNS	Yes
UPnP	Yes
Number of sub-interfaces configured on a WAN port	16
VPN	
IPsec VPN	Yes
IPsec VPN bandwidth	170 Mbps
Maximum number of branches in IPsec VPN networking	64
L2TP VPN	Yes
L2TP VPN bandwidth	540 Mbps
Maximum number of branches in L2TP VPN networking	64
OpenVPN	Yes
OpenVPN bandwidth	100 Mbps
Maximum number of branches in OpenVPN networking	64
PPTP VPN	Yes
PPTP VPN bandwidth	640 Mbps

Software Specifications

Model	RG-EG310GH-P-E
Maximum number of branches in PPTP VPN networking	64
SSL VPN	No
Easy VPN 1.0	No
Number of VPN accounts for L2TP, PPTP, and OpenVPN	300
WireGuard server	Yes
WireGuard client	Yes
WireGuard performance	300 Mbps
Number of concurrent tunnels supported by the WireGuard server	64

Package Contents

Model	RG-EG310GH-P-E
Accessories	
Power adapter	1
Power cord	1 x 1 m $\pm$ 50 mm (39.37 in. $\pm$ 1.97 in.)
Rubber pad	4
Manual	
User Manual	1
Warranty Card	1

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 Redefine your easy network



Ruijie Networks Co., Ltd.

Official Website: <https://Reyee.Ruijie.com>